Touchmonitor User Guide

1519L 15.6” LCD Desktop Touchmonitor
1919L 18.5” LCD Desktop Touchmonitor
(Optional Magnetic Stripe Reader Available)

elo TOUCHSYSTEMS

Tyco Electronics

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Elo TouchSystems

15.6” and 18.5” LCD Touchmonitor

Optional Magnetic Stripe Reader

User Guide

Revision A

P/N E356416

Elo TouchSystems

1-800-ELOTOUCH

www.elotouch.com

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CHAPTER

1

INTRODUCTION

Product Description

Your new 1519/1919L touchmonitor combines the reliable performance of touch technology with the latest advances in LCD display design. This combination of features creates a natural flow of information between a user and your touchmonitor.

This LCD monitor incorporates a 15.6" or 18.5" color active matrix thin-film-transistor (TFT) liquid crystal display to provide high quality display performance. A maximum resolution of WXGA 1366 :768 is well-suited for displaying both graphics and images. Other features that enhance the performance of this LCD touchmonitor are Plug & Play compatibility, OSD (On Screen Display) controls, an optional magnetic strip reader (MSR), and Elo's unique zero-bezel Acoustic Pulse Recognition (APR) and AccuTouch (AT) touchscreen. In addition, the 1519/1919L is easily configurable for either portrait or landscape orientation.

Precautions

Follow all warnings, precautions and maintenance procedure as recommended in this user's manual to maximize the life of the touch monitor. See Appendix B for more information on touchmonitor safety.

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CHAPTER

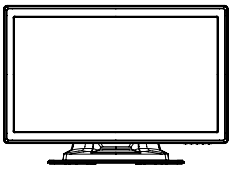
2

INSTALLATION AND SETUP

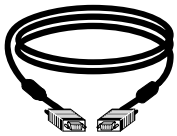
This chapter discusses how to install the 1519L/1919L LCD touchmonitor and the driver software.

Unpacking Your Touchmonitor

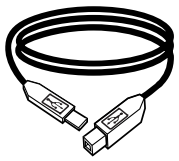
Check that the following items are present and in good condition:



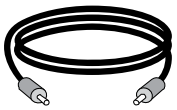
LCD monitor



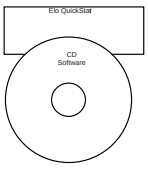
VGA cable



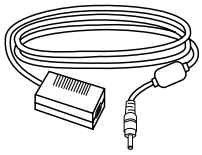
USB cable



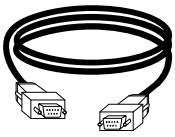
Audio cable



CD and Quick Install Guide



Power Brick



Serial Cable
(not included with APR model)

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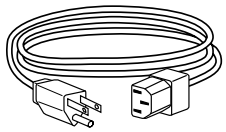
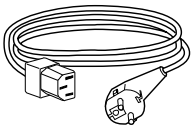
Power cable for North America models

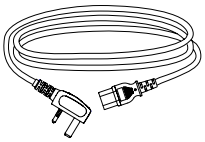


USA/UL Power cable

Power cable for European models

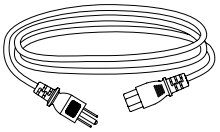


Europe/VDE power cable

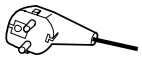


UK/UK power cable

Power cable for Japan models

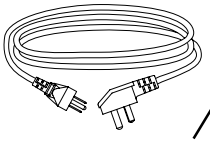


Japanese/PSE power cable



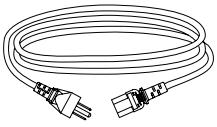
Adapter/Terminal

Power cable for Asia models



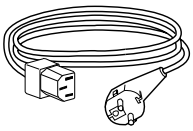
China/CCC power cable

and / or



Taiwan/BSMI power cable

and / or



Korea/KC power cable

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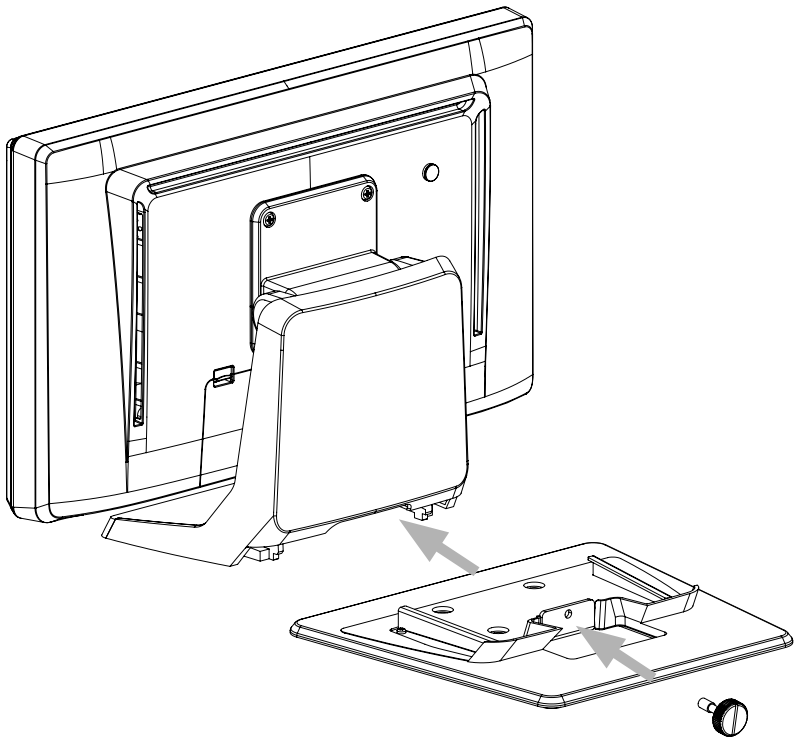
Assembling the stand plate



Pushing the stand plate toward the stand untill it is tight, then fasten the stand plate using captive screw.

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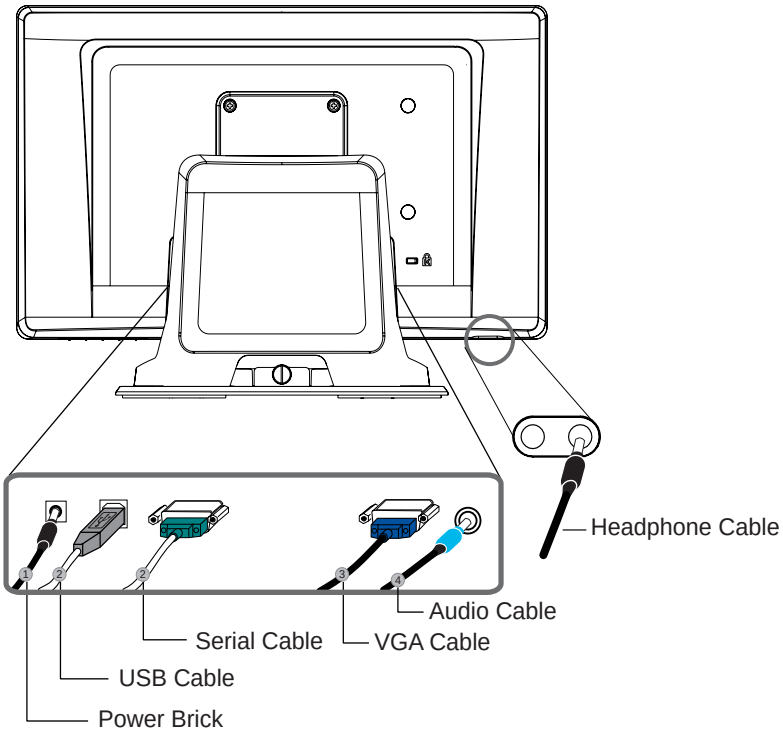
Interface Connection

Note: Before connecting the cables to your touchmonitor and PC, be sure that the computer and touchmonitor are turned off.



1. Connect DC cable of the power brick to the monitor and the other end through AC power cable to the AC outlet.
2. Connect one end of either the **touchscreen serial (RS232) cable** or the touch screen USB cable (but not both) to the rear side of the computer and the other end to the LCD monitor. Tighten by turning the two thumb screws clockwise to ensure proper grounding.
3. Connect one end of the **video cable** to the rear side of computer and the other to the LCD monitor. Tighten by turning the two thumb screws clockwise to ensure proper grounding.
4. Connect one end of the audio cable to the rear side of computer and the other to the LCD monitor.
5. Facing the monitor, press the power button located on the underside of the botom-right corner of the monitor.

Speakers and Audio

The touchmonitor includes two built-in speakers. To use the speakers, plug in the audio cable to the Audio Input port and connect the other end to your computer.

To use headphones, plug in the headphones to the Audio Output port shown above. When headphones are connected, the sound plays through the headphones only.

The volume and muting of the sound can be adjusted by using the “Audio” choice from the On-Screen Display (OSD) Control panel menu as described on page 3-19.

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Magnetic Stripe Reader (MSR) Interface Connection (optional)

If the MSR is installed on the monitor, plug the USB cable from the MSR directly to the PC. No drivers are required to be loaded.

To change the MSR function mode from keyboard emulation to HID, load the "MSR CHANGE MODE.EXE" utility from the enclosed TouchTools CD or go online to www.elotouch.com to download this utility.

Note: MSR function mode can be changed to HID mode from keyboard emulation mode and back using the "MSR CHANGE MODE.EXE" utility.

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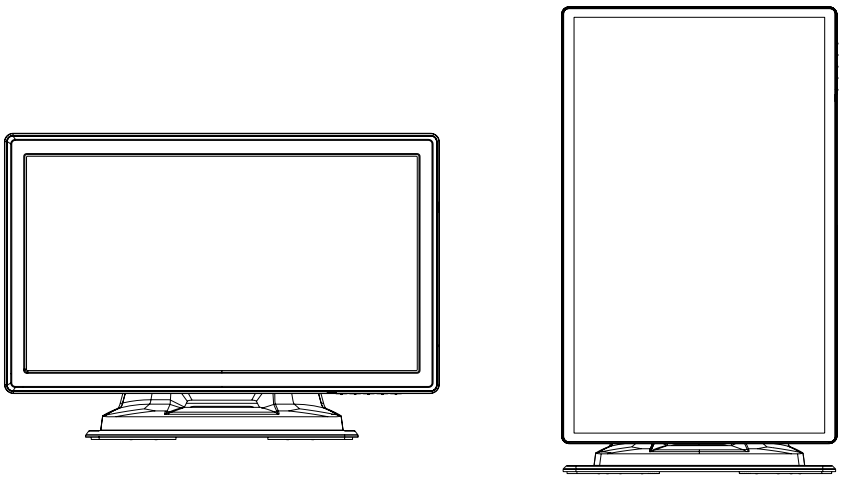
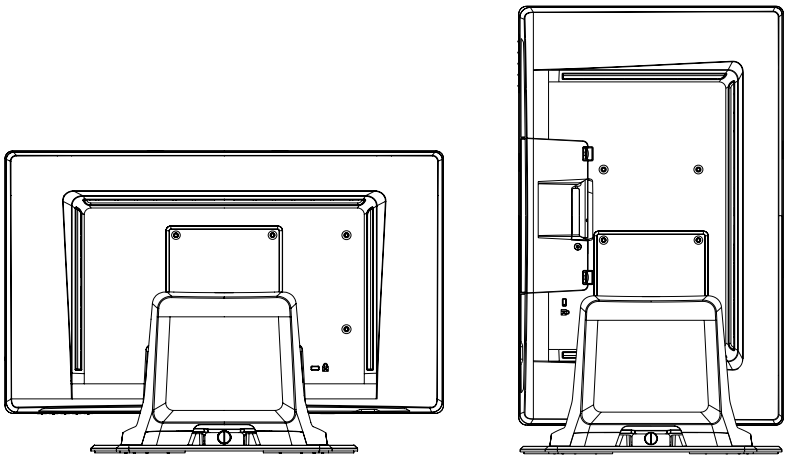
Product Overview

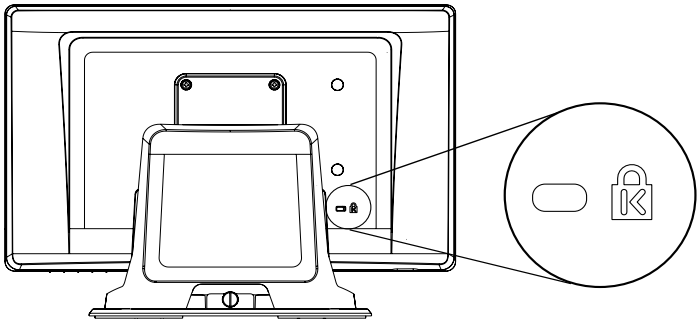
Main Unit



Rear View



Kensington™ Lock



The Kensington™ lock is a security device that prevents theft. To find out more about this security device, go to http://www.kensington.com.

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Installing the Driver Software

Elo TouchSystems provides driver software that allows your touchmonitor to work with your computer. Drivers are located on the enclosed CD-ROM for the following operating systems:

- Windows 7
- Windows Vista
- Windows XP
- Windows 2000
- Windows Me
- Windows 98
- Windows 95
- Windows NT4.0
- Windows 3.1
- MS-DOS

Additional drivers and driver information for other operating systems are available on the Elo TouchSystems web site at www.elotouch.com.

The Elo touchmonitor is plug-and-play compliant. Information on the video capabilities of your touchmonitor is sent to your video display adapter when Windows starts. If Windows detects your touchmonitor, follow the instructions on the screen to install a generic plug-and-play monitor.

Refer to the following appropriate section for driver installation instructions.

Depending upon whether you connected the serial communication cable or the USB communication cable, only the serial driver or the USB driver should be installed.

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Installing the Serial Touch Driver (not applicable to Acoustic Pulse Recognition monitor)

Installing the Serial Touch Driver for Windows 7, Windows Vista, Windows XP, Windows 2000, ME, 95/98 and NT4.0.

NOTE: For Windows 2000 and NT4.0 you must have administrator access rights to install the driver. Make sure the serial connector (RS232) is plugged into the monitor and an open com port on the PC.

1 Insert the Elo CD-ROM in your computer's CD-ROM drive.
2 If the AutoStart feature for your CD-ROM drive is active, the system automatically detects the CD and starts the setup program.
3 Follow the directions on the screen to complete the driver setup for your version of Windows.
4 If the AutoStart feature is not active:
5 Click **Start > Run**.
6 Click the **Browse** button to locate the EloCd.exe program on the CD-ROM.
7 Click **Open**, then **OK** to run EloCd.exe.
8 Follow the directions on the screen to complete the driver setup for your version of Windows.

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Installing the Serial Touch Driver for MS-DOS and Windows 3.1

You must have a DOS mouse driver (MOUSE.COM) installed for your mouse if you wish to continue using your mouse along with your touchmonitor in DOS.

To install Windows 3.x and MS-DOS touch driver from Windows 95/98, follow the directions below:

1 Insert the CD-ROM in your computer's CD-ROM drive.
2 From DOS, type d: and press the **Enter** key to select the CD-ROM (your CD-ROM drive may be mapped to a different drive letter).
3 Type cd\elodos_w31 to change to the correct directory.
4 Type **Install** and press **Enter** to start the installation.
5 Calculate the touchscreen.

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Installing the USB Touch Driver

Installing the USB Touch Driver for Windows 7, Windows Vista, Windows XP, Windows 2000, ME and Windows 98.

1 Insert the Elo CD-ROM in your computer's CD-ROM drive.
If Windows 98 or Windows 2000 starts the Add New Hardware Wizard, do the following:
2 Choose **Next**. Select "Search for the best driver for your device (Recommended)" and choose **Next**.
3 When a list of search locations is displayed, place a checkmark on "Specify a location" and use **Browse** to select the \EloUSB directory on the Elo CD-ROM.
4 Choose **Next**. Once the Elo USB touchscreen driver has been detected, choose **Next** again.
5 You will see several files being copied. Insert your Windows 98 cd if prompted. Choose **Finish**.

If Windows 98 or Windows 2000 does not start the Add New Hardware Wizard, do the following:

NOTE: For Windows 2000 you must have administrator access rights to install the driver.

1 Insert the Elo CD-ROM in your computer's CD-ROM drive. If the AutoStart feature for your CD-ROM drive is active, the system automatically detects the CD and starts the setup program.
2 Follow the directions on the screen to complete the driver setup for your version of Windows.

If the AutoStart feature is not active:
1 Click **Start > Run**.
2 Click the **Browse** button to locate the EloCd.exe program on the CD-ROM.
3 Click **Open**, then **OK** to run EloCd.exe.
4 Follow the directions on the screen to complete the driver setup for your version of Windows.

Installing APR USB Touch Driver for Windows XP and Windows VISTA

Insert the Elo APR CD-ROM in your computer's CD-ROM driver
Follow the directions on the screen to complete the APR 3.1 driver setup for your version of Windows. Do not plug USB cable until software is fully loaded. When finished, plug USB cable and alignment data is transferred.

Note: For the latest driver, go to elotouch.com and download it from the driver download section.

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CHAPTER

3

OPERATION

About Touchmonitor Adjustments

Your touchmonitor will not likely require adjustment. However, variations in video output and application may require adjustments to the touchmonitor to optimize the quality of the display.

For best performance, the input video resolution should be the touchmonitors native resolution, 1366 x 768. Use the Display control panel in Windows to choose 1366 x 768 resolution.

Operating in other resolutions will degrade video performance. For further information, please refer to Appendix A.

All adjustments made to the controls are automatically memorized. This feature saves you from having to reset the choices every time the touchmonitor is unplugged or powered off and on. If there is a power failure, the touchmonitor settings will not default to the factory specifications.

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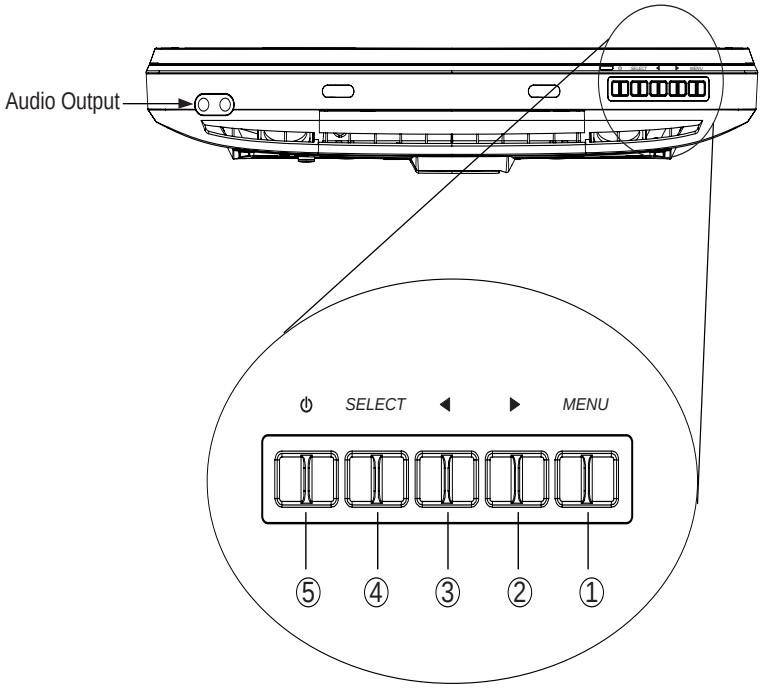
Bottom Panel Controls



	Control	Function
1	**Menu/Exit**	Display/Exits the OSD menus.
2	►	1. Enter Luminance of the OSD. 2. Increase value of the adjustment item. 3. Move OSD selection upward.
3	◄	1. Enter Audio of the OSD. 2. Decrease value of the adjustment item. 3. Move OSD selection downward .
4	**Select**	1. Auto adjust function. 2. Select the adjustment item from the OSD menu.
5	**Power Switch**	Switch the power of the monitor.

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On Screen Display (OSD) Menu Functions

To Display and Select the OSD Functions:

1. Press the Menu key to activate the OSD menu.
2. Use ► or◄ to move upward or downward through the menu. Press the "Select" key, execute the function or enter the sub-menu.
3. To quit the OSD screen at any time during the operation, press the Menu key. If no keys are pressed for a short time period, the OSD automatically disappears.

NOTE: The OSD screen will disappear if no input activities are detected for at a minimum of 15 seconds or depending on how long the timer is set via the OSD menu. The time ranges from 5 seconds to 60 seconds.

On Screen Display (OSD) Lock/Unlock

The OSD feature can be locked and unlocked. The monitor is shipped in the unlocked position.
To lock the OSD:

1. Press the Menu button and ►button simultaneously until a window appears displaying "OSD Unlocked". Continue to hold the buttons until the window toggles to "OSD Locked".
2. To unlock the the Power Locking Feature, repeat the procedure until the "OSD Unlocked" is displayed.

To lock the power:

1. Press the menu and ◄button simultaneously until a window displaying "Power unlocked" appears. Continue to hold the buttons until the "Power Locked".
2. To unlock the power repeat the procedure until the "Power Unlocked" is displayed.

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On Screen Display(OSD) Control Options

Control	Description
Auto-Adjust	Select “Auto-Adjust” to enable this function. The Auto-Adjust will automatically adjust V-Position, H-Position, Clock and Phase.
Luminance	
·Brightness	Increases or decreases brightness
·Contrast	Increases or decreases contrast
Image Setting	
·H-Position	Moves the screen left or right
·V-Position	Moves the screen up or down
·Clock	The dot clock is fine-adjusted after auto adjust.
·Phase	Increases or decreases the video noise of the image after an auto adjustment is made.
Color	Press ► or◄ to select 9300, 6500, 5500, 7500 and USER. Only when selecting USER can you make adjustments to the R/G/B content values.
Audio	
·Mute	Enable/Disable audio mute.
·Volume	Increase or decrease audio volume.
OSD	
·OSD H-Position	Moves the OSD position horizontally on the screen. When the ► button is pressed, the OSD control menu will move to the right side of the screen. Likewise, when the ◄ button is pressed, the OSD control menu will move to the left side.
·OSD V-Position	Moves the OSD position vertically on the screen. When the ► button is pressed, the OSD control menu will move to the top side of the screen. Likewise, when the ◄ button is pressed, the OSD control menu will move to the lower side.
·OSD Timeout	Adjusts the amount of time of the OSD menu is displayed.
Language	Select from English, French, Italian, German, Spanish, Japanese, Traditional Chinese and Simplified Chinese.
Recall	Returns the monitor to its default settings.
Miscellaneous	
·Aspect ratio	
··Fill screen	No matter what LCD aspect ratio, scales video so it fills the LCD with no over or under scan. Change video aspect ratio.
··Fill to Aspect ratio	Sets the height of video equal to the height of LCD. Video Aspect ratio is preserved. Black bars on left and right side of LCD screen may appear.
·Sharpness	Adjusts sharpness of video signals on a scale from 1 to 5 using 4 discrete steps.
Exit	Exits the OSD display.

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Preset Modes

To reduce the need for adjustment for different modes, the monitor has default setting modes that are most commonly used as given in the table below. If any of these display modes are detected, the monitor automatically adjusts the picture size and centering. When none of the modes are matched, the user can store their preferred modes in the user modes. The monitor is capable of storing up to 7 user modes. The only condition to store as a user mode is the new display information which must have 1 KHz difference for horizontal frequency or 1 Hz for vertical frequency or the sync signal polarities are different from the default modes.

Resolution	Vertical Frequency
720 x 350	70Hz (may not display at full screen)
720 x 400	70Hz
640 x 480	60 / 72 / 75Hz
800 x 600	56 / 60 / 72 / 75Hz
832 x 624	75Hz
1024 x 768	60 / 70 / 75Hz
1280 x 800	60Hz
1280 x 960	60Hz
1280 x 1024	60 / 75Hz
1360 x 768	60Hz
1366 x 768	60Hz
1440 x 900	60Hz
1600 x 1200	60Hz
1680 x 1050	60Hz

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Power Management System

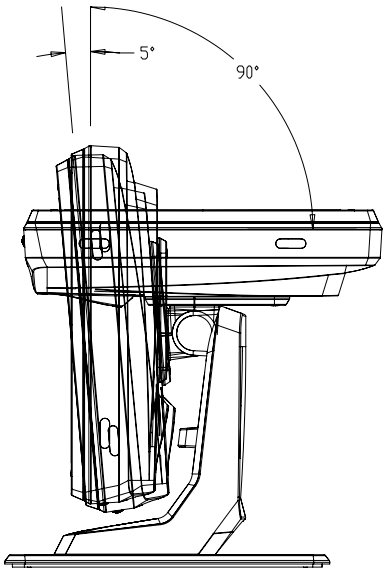
Mode	Power Consumption (12VDC input)
On	<42W
Sleep	<4W
Off	<2W

It is recommended to switch the monitor off when it is not in use for a long period of time.

NOTE: Complies to VESA Power Management (DPM) standards. To activate the monitor, press any key on the keyboard or move the mouse or touch the touchscreen. In order for the touchscreen to bring the monitor from the DPM system, the touchscreen function must be fully operational.

Display Angle

For viewing clarity, the LCD can tilt forward (up to -5 degrees) or backward (up to 90 degrees.)



CAUTION In order to protect the LCD, be sure to hold the base when adjusting the LCD and do **not** touch the screen.

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CHAPTER

4

TROUBLESHOOTING

If you are experiencing trouble with your touchmonitor, refer to the following table. If the problem persists, please contact your local dealer or the Elo service center.

Solutions to Common Problems

Problem	Suggestion(s)
The monitor does not respond when turning on the system.	1. Check that the monitor's Power Switch is on. 2. Turn off the power and check the monitor's DC power cord and signal cable for proper connection.
Characters on the screen are dim	Refer to the About Touchmonitor Adjustments section to adjust the brightness.
The video is blank	1. During operation, the monitor screen may automatically turn off as a result of the Power Saving feature. Press any key to see if the screen reappears. 2. Refer to the About Touchmonitor Adjustments section to adjust the brightness.
Screen flashes when initialized	Turn the monitor off then turn it on again.
"Out of Range" display	Reconfigure the resolution of your computer to make one of the monitor's supported video mode (see Appendix C).See Appendix A for more information on resolution.
Touch doesn't work	Make sure the touch cable is securely attached at both ends.

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A

NATIVE RESOLUTION

The native resolution of a monitor is the resolution level at which the LCD panel is designed to perform best. For the LCD touchmonitor, the native resolution is 1366 x 768 for the 15.6 inch and 18.5 inch size. In almost all cases, screen images look best when viewed at their native resolution. The resolution setting of a monitor can be lowered but not increased.

Input Video	1519L/1919L monitor
640 x 480 (VGA)	Transforms input format to 1366 x 768
800 x 600 (SVGA)	Transforms input format to 1366 x 768
1024 x 768 (SVGA)	Transforms input format to 1366 x 768
1366 x 768 (WXGA)	Displays in Native Resolution
1360 x 768	Displays with scaling

The native resolution of an LCD is the actual number of pixels horizontally in the LCD by the number of pixels vertically in the LCD. LCD resolution is usually represented by the following symbols:

VGA	**640 x 480**
SVGA	**800 x 600**
XGA	**1024 x 768**
SXGA	**1280 x 1024**
UXGA	**1600 x 1200**
WXGA,avg	**1280 x 800**
SXGA-	**1280 x 960**
WXGA,max	**1366 x 768**
WXGA+	**1440 x 900**
WSXGA+	**1680 x 1050**

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As an example, a SVGA resolution LCD panel has 800 pixels horizontally by 600 pixels vertically. Input video is also represented by the same terms. XGA input video has a format of 1024 pixels horizontally by 768 pixels vertically. When the input pixels contained in the video input format match the native resolution of the panel, there is a one to one correspondence of mapping of input video pixels to LCD pixels. As an example, the pixel in column 45 and row 26 of the input video is in column 45 and row 26 of the LCD. For the case when the input video is at a lower resolution than the native resolution of the LCD, the direct correspondence between the video pixels and the LCD pixels is lost. The LCD controller can compute the correspondence between video pixels and LCD pixels using algorithms contained on its controller. The accuracy of the algorithms determines the fidelity of conversion of video pixels to LCD pixels. Poor fidelity conversion can result in artifacts in the LCD displayed image such as varying width characters.

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B

TOUCHMONITOR SAFETY

This manual contains information that is important for the proper setup and maintenance of your touchmonitor. Before setting up and powering on your new touchmonitor, read through this manual, especially Chapter 2 (Installation), and Chapter 3 (Operation).

1 To reduce the risk of electric shock, follow all safety notices and never open the touchmonitor case.
2 Turn off the product before cleaning.
3 The slots located on the sides and top of the touchmonitor case are for ventilation. Do not block or insert anything inside the ventilation slots.
4 It is important that your touchmonitor remains dry. Do not pour liquid into or onto your touchmonitor. If your touchmonitor becomes wet do not attempt to repair it yourself.

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Care and Handling of Your Touchmonitor

The following tips will help keep your touchmonitor functioning at the optimal level.

- To avoid risk of electric shock, do not disassemble the brick power supply or display unit cabinet. The unit is not user serviceable. Remember to unplug the display unit from the power outlet before cleaning.
- Do not use alcohol (methyl, ethyl or isopropyl) or any strong dissolvent. Do not use thinner or benzene, abrasive cleaners or compressed air.
- To clean the display unit cabinet, use a cloth lightly dampened with a mild detergent.
- Avoid getting liquids inside your touchmonitor If liquid does get inside, have a qualified service technician check it before you power it on again.
- Do not wipe the screen with a cloth or sponge that could scratch the surface.
- To clean the touchscreen, use window or glass cleaner. Put the cleaner on a clean cloth and wipe the touchscreen. Never apply the cleaner directly to the touchscreen.

Warning

This product consists of devices that may contain mercury, which must be recycled or disposed of in accordance with local, state, or federal laws. (Within this system, the backlight lamps in the monitor display contain mercury.)

Waste Electrical and Electronic Equipment (WEEE) Directive

In the European Union, this label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

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APPENDIX

C

TECHNICAL SPECIFICATIONS

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Touchmonitor Specifications

Model		1519L
LCD Display		15.6" TFT Active Matrix Panel
Display Size		344.232 (H) x 193.536 (V) mm
Pixel Pitch		0.252 (H) x 0.252 (V) mm
Native Resolution		1366 x 768
Display Mode		720 x 350 (70Hz) - (may not display at full screen) 720 x 400 (70Hz) 640 x 480 (60 / 72 / 75Hz) 800 x 600 (56 / 60 / 72 / 75Hz) 832 x 624 (75Hz) 1024 x 768 (60 / 70 / 75Hz) 1280 x 800 (60Hz) 1280 x 960 (60Hz) 1280 x 1024 (60 / 75Hz) 1360 x 768 (60Hz) 1366 x 768 (60Hz) 1440 x 900 (60Hz) 1600 x 1200 (60Hz) 1680 x 1050 (60Hz)
Contrast Ratio		500 : 1 (typical)
Brightness		LCD Monitor: typical 250 Cd/m² ; Min 210 Cd/m² AccuTouch: typical 200 Cd/m² ; Min 157.5 Cd/m² IntelliTouch: typical 225 Cd/m² ; Min 178.5 Cd/m² Acoustic Pulse Recognition: typical 225 Cd/m² ; Min 178.5 Cd/m²
Response Time		Tr+Tf = 8ms (Typ.)
Display Color		16.7M
Viewing Angle		Vertical -20°/+45° Horizontal ±45°
Input Video	Signal Type	R.G.B. Analog 0.7Vp-p, 75 ohm
	Sync	TTL Positive or Negative, Sync on green or Composite Sync.
	Connector	Mini D-Sub 15 pin
Bottom Controls		Menu, ► ,◄ , Select, Power
Speakers		Two 2W internal speakers
Audio Input Connector		3.5mm TRS jack
Headphone Output connector		Two 3.5m TRS jack
OSD		Contrast, Brightness, H-Position, V-Position, Color Temperature, Phase, Clock, OSD Time, Recall, Language: English, French, Italian, German, Spanish, Japanese, Traditional Chinese and Simplified Chinese
Plug & Play		DDC 2B
Touch Panel		AccuTouch /IntelliTouch/Acustic Pulse Recognition
Power Adapter		Input: AC 100-240V, 50-60Hz , Output:DC 12V/4.16A
Operating Conditions	Temperature	0°C ~ 40°C
	Humidity	20% ~ 80% (No Condensation)
	Altitude	0 to 3,658m
Storage Conditions	Temperature	-20°C ~ 50°C
	Humidity	10% ~ 90% (No Condensation)
	Altitude	0 to 12,192m
Dimensions (HxWxD)		383.05 x 276.5 x 213.2mm/ 406.21 x 276.5 x 213.2mm (with MSR)
Weight (Net)		5.2Kg
Certifications		Argentina S-Mark, UL, CE, FCC,VCCI, C-Tick, CCC, ICES-003, China RoHS, BSMI, KC/KCC and NOM.

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Touchmonitor Specifications

Model		1919L
LCD Display		18.5" TFT Active Matrix Panel
Display Size		409.8 (H) x 230.4 (V) mm
Pixel Pitch		0.3 (H) x 0.3 (V) mm
Native Resolution		1366 x 768
Display Mode		720 x 350 (70Hz) - (may not display at full screen) 720 x 400 (70Hz) 640 x 480 (60 / 72 / 75Hz) 800 x 600 (56 / 60 / 72 / 75Hz) 832 x 624 (75Hz) 1024 x 768 (60 / 70 / 75Hz) 1280 x 800 (60Hz) 1280 x 960 (60Hz) 1280 x 1024 (60 / 75Hz) 1360 x 768 (60Hz) 1366 x 768 (60Hz) 1440 x 900 (60Hz) 1600 x 1200 (60Hz) 1680 x 1050 (60Hz)
Contrast Ratio		500 : 1 (typical)
Brightness		LCD Monitor: typical 250 Cd/m² ; Min 185 Cd/m² AccuTouch: typical 200 Cd/m² ; Min 139 Cd/m² IntelliTouch: typical 225 Cd/m² ; Min 157 Cd/m² Acoustic Pulse Recognition: typical 225 Cd/m² ; Min 157 Cd/m²
Response Time		Tr+Tf = 5ms (Typ.)
Display Color		16.7M
Viewing Angle		Vertical ±80° Horizontal ±85°
Input Video	Signal Type	R.G.B. Analog 0.7Vp-p, 75 ohm
	Sync	TTL Positive or Negative, Sync on green or Composite Sync.
	Connector	Mini D-Sub 15 pin
Bottom Controls		Menu, ► ,◄ , Select, Power
Speakers		Two 2W internal speakers
Audio Input Connector		3.5mm TRS jack
Headphone Output connector		Two 3.5m TRS jack
OSD		Contrast, Brightness, H-Position, V-Position, Color Temperature, Phase, Clock, OSD Time, Recall, Language: English, French, Italian, German, Spanish, Japanese, Traditional Chinese and Simplified Chinese
Plug & Play		DDC 2B
Touch Panel		AccuTouch /IntelliTouch/Acustic Pulse Recognition
Power Adapter		Input: AC 100-240V, 50-60Hz , Output:DC 12V/4.16A
Operating Conditions	Temperature	0°C ~ 40°C
	Humidity	20% ~ 80% (No Condensation)
	Altitude	0 to 3,658m
Storage Conditions	Temperature	-20°C ~ 50°C
	Humidity	10% ~ 90% (No Condensation)
	Altitude	0 to 12,192m
Dimensions (HxWxD)		453.92 x 321.02 x 236.2mm/ 476.64 x 321.02 x 236.2mm (with MSR)
Weight (Net)		7.3Kg
Certifications		Argentina S-Mark, UL, CE, FCC,VCCI, C-Tick, CCC, ICES-003, China RoHS, BSMI , KC/KCC and NOM.

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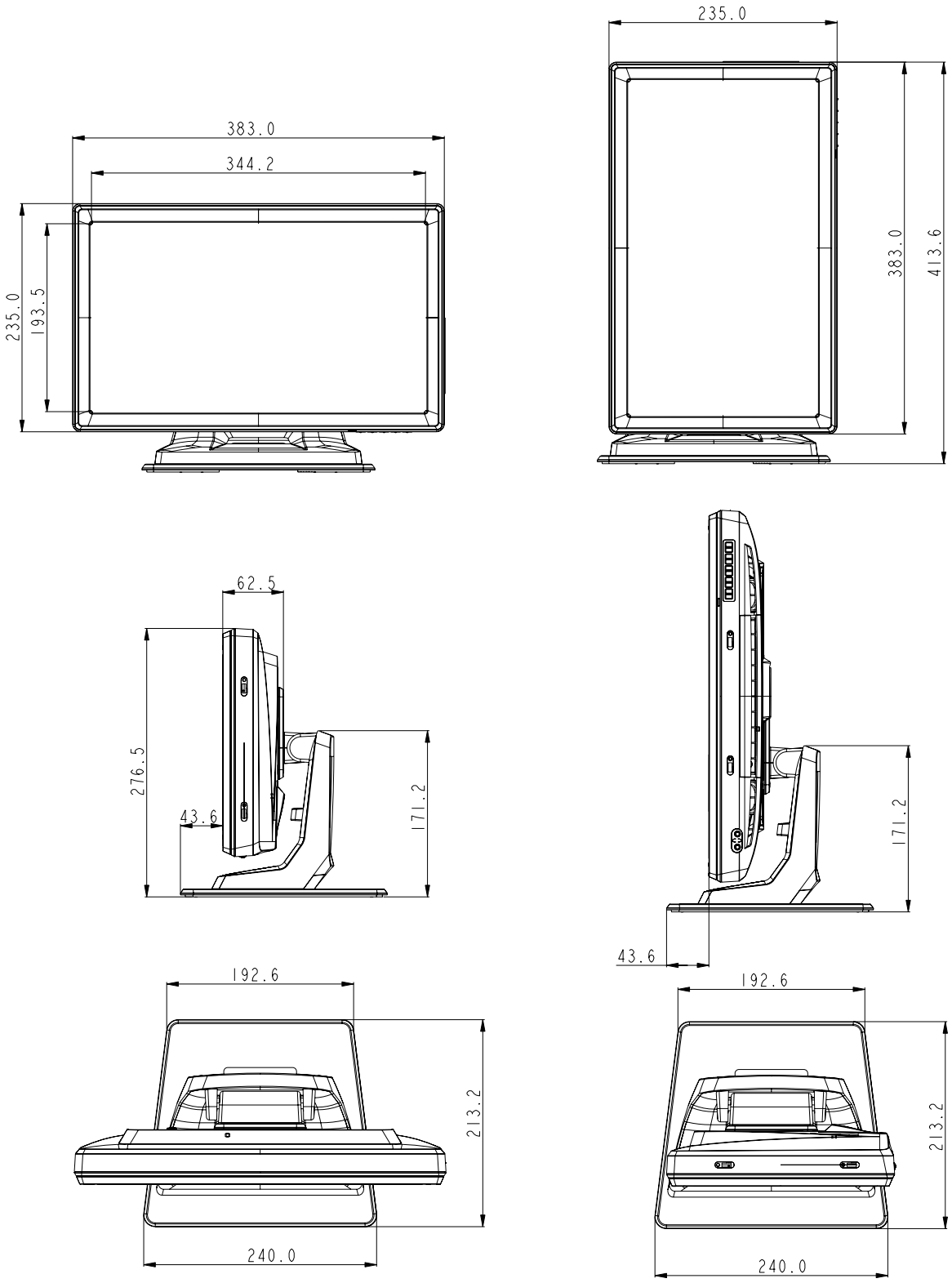
15” LCD Touchmonitor (1519L) Dimensions



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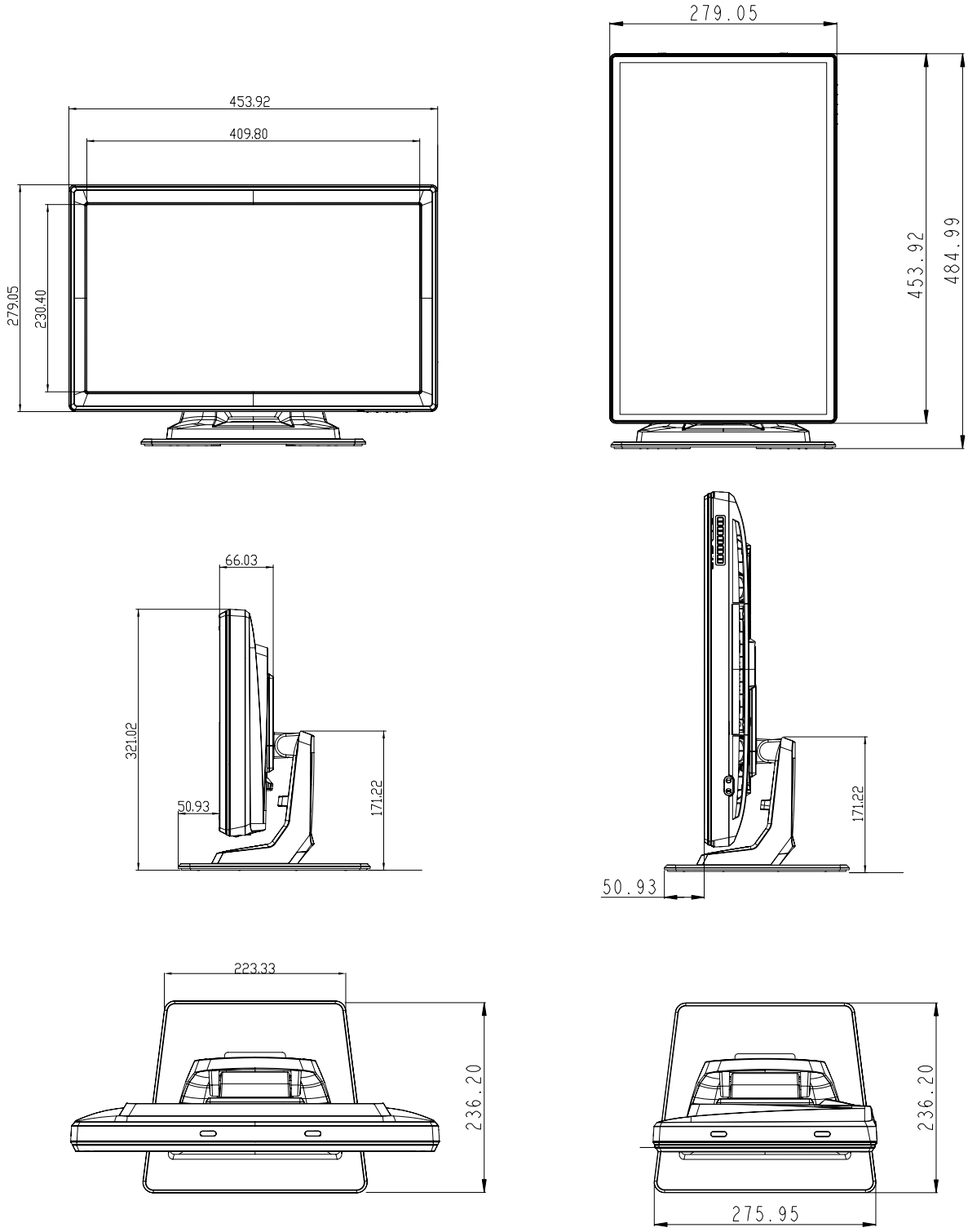
19” LCD Touchmonitor (1919L) Dimensions



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REGULATORY INFORMATION

I. Electrical Safety Information:

A) Compliance is required with respect to the voltage, frequency, and current requirements indicated on the manufacturer's label. Connection to a different power source than those specified herein will likely result in improper operation, damage to the equipment or pose a fire hazard if the limitations are not followed.

B) There are no operator serviceable parts inside this equipment. There are hazardous voltages generated by this equipment which constitute a safety hazard. Service should be provided only by a qualified service technician.

C) Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment to mains power.

II. Emissions and Immunity Information

A) Notice to Users in the United States: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

B) Notice to Users in Canada: This equipment complies with the Class B limits for radio noise emissions from digital apparatus as established by the Radio Interference Regulations of Industrie Canada.

C) Notice to Users in the European Union: Use only the provided power cords and interconnecting cabling provided with the equipment. Substitution of provided cords and cabling may compromise electrical safety or CE Mark Certification for emissions or immunity as required by the following standards:

This Information Technology Equipment (ITE) is required to have a CE Mark on the manufacturer's label which means that the equipment has been tested to the following Directives and Standards: This equipment has been tested to the requirements for the CE Mark as required by EMC Directive 89/336/EEC indicated in European Standard EN 55022 Class B and the Low Voltage Directive 73/23/EEC as indicated in European Standard EN 60950.

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D) General Information to all Users: This equipment generates, uses and can radiate radio frequency energy. If not installed and used according to this manual the equipment may cause interference with radio and television communications. There is, however, no guarantee that interference will not occur in any particular installation due to site-specific factors.

1) In order to meet emission and immunity requirements, the user must observe the following:
   a) Use only the provided I/O cables to connect this digital device with any computer.
   b) To ensure compliance, use only the provided manufacturer's approved line cord.
   c) The user is cautioned that changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2) If this equipment appears to cause interference with radio or television reception, or any other device:
   a) Verify as an emission source by turning the equipment off and on.
   b) If you determine that this equipment is causing the interference, try to correct the interference by using one or more of the following measures:
      i) Move the digital device away from the affected receiver.
      ii) Reposition (turn) the digital device with respect to the affected receiver.
      iii) Reorient the affected receiver's antenna.
      iv) Plug the digital device into a different AC outlet so the digital device and the receiver are on different branch circuits.
      v) Disconnect and remove any I/O cables that the digital device does not use. (Unterminated I/O cables are a potential source of high RF emission levels.)
      vi) Plug the digital device into only a grounded outlet receptacle. Do not use AC adapter plugs. (Removing or cutting the line cord ground may in crease RF emission levels and may also present a lethal shock hazard to the user.)

If you need additional help, consult your dealer, manufacturer, or an experienced radio or television technician.

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III. Agency Certifications

The following certifications have been issued for this monitor:

- Argentina S-Mark
- Australia C-Tick
- Canada CUL
- Canada IC
- China CCC (Asia models only)
- China RoHS (Asia models only)
- Europe CE
- Japan VCCI
- FCC
- United States UL
- BSMI
- KC/KCC
- NOM

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WARRANTY

Except as otherwise stated herein or in an order acknowledgment delivered to Buyer, Seller warrants to Buyer that the Product shall be free of defects in materials and workmanship. The warranty for the touchmonitors and components of the product is 3 (three) years.
Seller makes no warranty regarding the model life of components. Seller's suppliers may at any time and from time to time make changes in the components delivered as Products or components.
Buyer shall notify Seller in writing promptly (and in no case later than thirty (30) days after discovery) of the failure of any Product to conform to the warranty set forth above; shall describe in commercially reasonable detail in such notice the symptoms associated with such failure; and shall provide to Seller the opportunity to inspect such Products as installed, if possible. The notice must be received by Seller during the Warranty Period for such product, unless otherwise directed in writing by the Seller. Within thirty (30) days after submitting such notice, Buyer shall package the allegedly defective Product in its original shipping carton(s) or a functional equivalent and shall ship to Seller at Buyer's expense and risk.
Within a reasonable time after receipt of the allegedly defective Product and verification by Seller that the Product fails to meet the warranty set forth above, Seller shall correct such failure by, at Seller's options, either (i) modifying or repairing the Product or (ii) replacing the Product. Such modification, repair, or replacement and the return shipment of the Product with minimum insurance to Buyer shall be at Seller's expense. Buyer shall bear the risk of loss or damage in transit, and may insure the Product. Buyer shall reimburse Seller for transportation cost incurred for Product returned but not found by Seller to be defective. Modification or repair, of Products may, at Seller's option, take place either at Seller's facilities or at Buyer's premises. If Seller is unable to modify, repair, or replace a Product to conform to the warranty set forth above, then Seller shall, at Seller's option, either refund to Buyer or credit to Buyer's account the purchase price of the Product less depreciation calculated on a straight-line basis over Seller's stated Warranty Period.

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North America
Elo TouchSystems
301 Constitution Drive,
Menlo Park, CA 94025
USA

(800) ELO-TOUCH
(800-557-1458)
Tel 650-361-4800
Fax 650-361-4722
customerservice@elotouch.com

Germany
Tyco Electronics Raychem GmbH
(Elo TouchSystems Division)
Finsinger Feld 1
D-85521 Ottobrunn
Germany

Tel +49(0)(89)60822-0
Fax +49(0)(89)60822-180
elosales@elotouch.com

Belgium
Tyco Electronics Raychem GmbH
(Elo TouchSystems Division)
Diestsesteenweg 692
B-3010 Kessel-Lo
Belgium

Tel +32(0)(16)35-2100
Fax +32(o)(16)35-2101
elosales@elotouch.com

Asian-Pacific
Sun Homada Bldg. 2F
1-19-20 Shin-Yokohama
Kanagawa 222-0033
Japan

Tel +81(45)478-2161
Fax +81(45)478-2180
www.tps.co.jp

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